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feeding web strand.

CLAIMS

We claim:

1	1. A variable folder having a product strand path extending therethrough,
2	said variable folder comprising:
3	a cross-cutting arrangement including a cutting cylinder and at least one cutting
4	blade carried on said cutting cylinder functional for cutting a product from a feeding web
5	strand fed along the product strand path, said at least one cutting blade having a plurality of
5 6 7 8 10 110	recesses functioning to leave residual crosspieces in said feeding web strand by which said
7 17 11	product remains connected to said feeding web strand;
8	a collecting cylinder located downstream of said cross-cutting arrangement along
9	the product strand path;
10	a product directing arrangement which leads from said cross-cutting
Ť1	arrangement to said collecting cylinder; and
12	accelerating and tearing-off cams at a location between said cross-cutting
13	arrangement and said collecting cylinder through which said product passes, said accelerating
14	and tearing-off cams operable for gripping said product to tear off said product from said
15	feeding web strand at said residual crosspieces.
1	2 A graniable folder according to the day of the second se
1	2. A variable folder according to claim 1, wherein said cutting blade has
2	three recesses, said recesses being arranged to register with border regions and a center of said

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- 1 3. A variable folder according to claim 1, wherein each residual crosspiece 2 has an accelerating and tearing-off cam associated therewith.
- 1 4. A variable folder according to claim 1, wherein said accelerating and 2 tearing-off cams are arranged to register with print-free regions of said feeding web strand.
 - 5. A variable folder according to claim 1, further comprising first and second drawing arrangements arranged one after another upstream of said cross-cutting arrangement, said first and second drawing arrangements each operating at a circumferential speed which is greater than a speed of said feeding web strand received from upstream printing units by a lead which is adjustable.
 - 6. A variable folder according to claim 5, further comprising a third drawing arrangement arranged between said cross-cutting arrangement and said accelerating and tearing-off cams, said third drawing arrangement being operable at the circumferential speed of said first and second drawing arrangements.
- 7. A variable folder according to claim 6, wherein said accelerating and tearing-off cams are operable at a higher circumferential speed than the circumferential speed at which said first, second and third drawing arrangements are operable.
- 8. A variable folder according to claim 1, further comprising a driven roller, said accelerating and tearing-off cams interacting with said driven roller.

- 9. A variable folder according to claim 8, wherein a ratio of a speed of said driven roller to a speed of said accelerating and tearing-off cams is other than a whole number.
- 1 10. A variable folder according to claim 1, wherein said product-directing 2 arrangement comprises a belt directing system which in operation is product non-engageable.
 - 11. A variable folder according to claim 1, wherein said product-directing arrangement comprises tongues.